

B.Sc. MAJOR in ASTROPHYSICS Program Requirements

**2024-25
Calendar**

Humanities 6 credit hr	Arts/ECON 12 credit hr	Electives 21 credit hr	MATH/CSCI 6 credit hr	Science Breadth 18 credit hr	MAJOR Subject Area ASTR (18) + PHYS (39) Total 57 credit hr	
			MATH 1210 Intro Calculus I	CSCI 1226 Or CSCI 1227	ASTR 1100 Intro to Astrophysics	PHYS 1210 Univ. Physics I
			MATH 1211 Intro Calculus II	***	ASTR 2100 Foundations of Astrophysics	PHYS 1211 Univ. Physics II
				***	ASTR 2400 Physics of Stars	PHYS 1500 ■ Intro. Modern Phys.
				MATH 2311 Intermediate Calculus	ASTR 3400 Interstellar Matter & Stellar Evolution	PHYS 2302 Mechanics I
				MATH 2301 Applied Linear Algebra	ASTR 3500 Galaxies and Cosmology	PHYS 2303 Mechanics II
				MATH 2303 Differential Equations I	ASTR 4200 or 4600 Observational Astronomy <u>or</u> High-Energy Astrophysics	PHYS 2410 Electricity & Magnetism
						PHYS 2510 Thermodynamics
						PHYS 3200 Math Methods in Phys. I
						PHYS 3410 Electromagnetism
						PHYS 3500 Quantum Mechanics I
						PHYS ≥ 3xxx
						PHYS ≥ 3xxx
						PHYS ≥ 3xxx

NOTES:

*** Recommended: CSCI 1228 (*prerequisite is CSCI 1226 with grade of C or higher*) and/or CHEM 1210 & 1211

■ PHYS 1500 can be taken in Year 2.

LIGHT GRAY = suggested schedule for Year1

DARK GRAY = suggested schedule for Year2

A minimum GPA of 2.2 is required in the Major Subject Area courses

Course & Elective Options:

Sciences: Astronomy, Biology, Chemistry, Computing Science, Environmental Science, Geography (Group B only), Geology, Mathematics, Physics, Psychology (Excluding ASTR 1010, CHEM 1221, GEOL 1202, GEOL 1203, GEOL 1210, MATH 1202, and MATH 1203)

Arts: Anthropology, Arabic, Asian Studies, Atlantic Canada Studies, Chinese, Ancient Studies (Classics), Criminology, Economics, Education, English, French, German, Geography (Group A, C, D only), Health Wellness and Sport in Society, Hispanic Studies, History, Intercultural Studies, Global Development Studies (International Development Studies), Irish Studies, Japanese, Linguistics, Philosophy, Political Science, Public Humanities & Heritage, Religion, Sociology, Social Justice and Community Studies, Spanish, Gender Studies & Sexuality.

Humanities: Atlantic Canada Studies, Asian Studies, Ancient Studies (Classics), English, History, Intercultural Studies, Irish Studies, Philosophy, Public Humanities & Heritage Religion, and Modern Languages (courses in literature and/or culture)